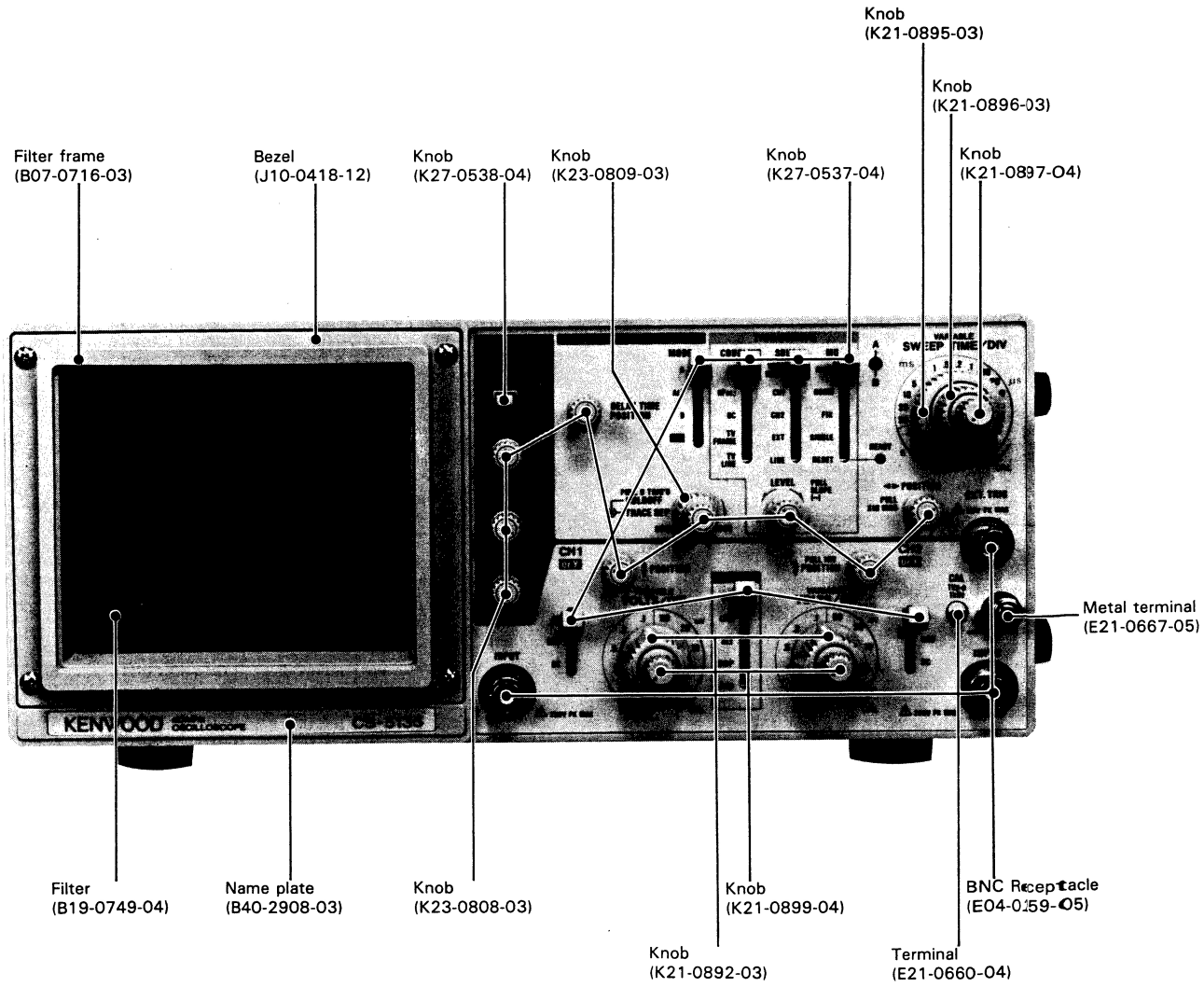
SCHEMATIC DIAGRAM
PARTS LIST
P.C. BOARD
ADJUSTMENT LOCATIONS

KENWOOD

CS-5135

40 MHz Oscilloscope

Serial No. 9090001 ~



COMPOSITE
B59-0556-00

PARTS LIST

CS-5135 UNIT

Y70-1600-00

REF.NO	PARTS NO	NAME & DESCRIPTION
	B30-0952-05	LAMP (T4.2 8V 0.15A)
	B41-0710-04	CAUTION LABEL (HIGH VOLTAGE)
	B50-7666-00	INSTRUCTION MANUAL(JAPANESE)
	B50-7667-00	INSTRUCTION MANUAL(ENGLISH)
	E31-0564-05	WIRE ASS'Y(GND)
	E31-5502-05	WIRE ASS'Y(CH1 OUT)
	E31-5509-05	WIRE ASS'Y(CAL)
	E31-5510-05	WIRE ASS'Y(V/H SUPPLY)
	E31-5514-05	WIRE ASS'Y(SCALE ILLUM. SUPPLY
	E31-5516-05	WIRE ASS'Y(EXT. TRIG)
	E31-5519-05	WIRE ASS'Y(READY LED)
	E31-5521-05	WIRE ASS'Y(DELAY LINE)
	E31-5526-05	WIRE ASS'Y(Z AXIS)
	E31-5543-05	WIRE HARNESS
	F05-1023-05	FUSE(6X30MM) 1A
	F05-5013-05	FUSE(6X30MM) 0.5A
	F05-5016-05	FUSE(5X20MM) 0.5AT
	H01-5887-04	CARTON BOX
	H10-2828-12	FOAMED STYRENE PAD (FRONT)
	H10-2829-12	FOAMED STYRENE PAD (REAR)
	H20-1727-04	VINYL COVER
	H25-0029-04	POLYETHYLENE BAG (FUSE)
	J61-0408-05	WIRE WRAPPING BAND
	W03-2308-05	PROBE (PC-30)
C1	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C2	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C3	CK45B2H102K	CAP. CERAMIC 1000P 10% 500V
C4	CK45B2H102K	CAP. CERAMIC 1000P 10% 500V
R1	RD14BB2E220J	RES. CARBON 22 5% 1/4W
R2	RD14BB2E220J	RES. CARBON 22 5% 1/4W
1	A01-1154-22	CASE(BOTTOM)
2	A01-1193-02	CASE(TOP)
3	A13-0914-02	FRAME (L)
4	A13-0917-02	FRAME (R.LOWER)
5	A13-0922-02	FRAME(CENTER)
6	A13-0923-02	FRAME(R.UPPER)
7	A20-2822-21	MOLDED PANEL
8	A21-1134-03	DECORATIVE PANEL
9	A22-0870-02	SUB PANEL
10	A23-1682-02	REAR PANEL
11	B07-0716-03	FILTER FRAME
12	B19-0749-04	FILTER
13	B30-0951-25	SCALE ILLUMI LAMP ASS'Y
14	B30-0957-05	LED (LN322GPT)
15	B40-2765-04	NAME PLATE (SERIAL NO)
16	B40-2908-03	NAME PLATE (MODEL)
17	B41-0801-04	CAUTION LABEL
18	D21-0915-04	EXTENSION SHAFT
19	D22-0501-04	JOINT & COUPLING
20	E04-0259-05	BNC RECEPTACLE
21A	E18-0365-05	AC SELECTOR WITH 6X30MM FUSE
21B	E18-0366-05	AC SELECTOR FOR 5X20MM FUSE
22	E21-0660-04	TERMINAL (CAL)
23	E21-0667-05	METAL TERMINAL
24	E23-0513-05	EARTH LUG (BNC)
25	E23-0552-04	EARTH TERMINAL
26A	E30-1818-05	JIS POWER CORD
26B	E30-1819-05	CEE POWER CORD
26C	E30-1820-05	UL/CSA POWER CORD
26D	E30-1821-05	SAA POWER CORD
26E	E30-1644-15	BS POWER CORD
27	F09-0512-04	EDGING
28	F11-1206-03	CRT SHIELD
29	F15-0733-04	FELT (CRT SHIELD)
30	F20-0658-04	INSULATED SHEET
31	F20-0667-04	INSULATED SHEET
32	F20-0672-14	INSULATED SHEET
33	G01-0909-04	COIL SPRING (CAL SHIELD)
34	J02-0089-05	FOOT
35	J02-0512-05	FOOT(SMALL)
36	J02-0515-04	TILT STAND
37	J10-0418-12	BEZEL
38	J19-1651-04	BLACKET
39	J19-1652-04	BLACKET FOR P.C.B.
40	J19-1653-13	HOLDER FOR CRT
41	J19-1654-14	HOLDER FOR LED
42	J21-2573-04	HOLDER FOR LEG
43	J21-4594-03	BRACKET FOR CRT
44	J30-0621-04	SPACER
45	J30-0623-04	SPACER
46	J42-0533-04	BUSHING (FREE)
47	J59-0403-05	NYLON RIVET (ILLUMI)
48	J61-0509-05	WIRE WRAPPING BAND
49	K01-0409-05	HANDLE
50	K21-0892-03	KNOB (VOLTS/DIV)
51	K21-0895-03	KNOB (A SWEEP)
52	K21-0896-03	KNOB (B SWEEP)
53	K21-0897-14	KNOB
54	K21-0899-04	KNOB
55	K23-0808-03	KNOB
56	K23-0809-03	KNOB
57	K27-0537-04	KNOB (FOR LEVER SWITCH)
58	K27-0538-04	KNOB (FOR PUSH SWITCH)
59	L01-9736-05	POWER TRANSFORMER
60	L39-0526-15	ROTATION COIL
61	L76-0114-05	DELAY LINE
62	N15-1040-41	WASHER
63	N16-0040-41	SPRING WASHER
64	N30-4006-41	SCREW, PAN HD M4X6
65	R29-1501-05	V.R. 1KB
66	S40-2524-05	PUSH SWITCH (POWER)
67	W01-0503-04	CORD WRAP
68	X73-1790-00	VERTICAL UNIT
69	X74-1490-00	HORIZONTAL UNIT
70	X80-1060-02	LINE FILTER UNIT
71	150VTM31	CRT

VERTICAL UNIT

X73-1790-00

REF.NO	PARTS NO	NAME & DESCRIPTION
	F01-0863-03	HEAT SINK 169X60XT1.6
	F01-0864-04	HEAT SINK 61X33XT1
	F20-0516-05	INSULATOR
	J25-5258-02	PCB (UNMOUNTED)
	N09-0626-04	SCREW,SEMS M3X10
	N09-0742-04	SCREW,SEMS M3X8
	N19-0191-05	WASHER NONMETAL
	R92-1061-05	JUMPING RES. ZERO OHM (5MM)
C001	C91-0501-05	CAP. METAL FILM 0.047 10% 630V
C004	C91-1270-05	CAP. POLYESTER 0.001 10% 400V
C005	CC45FCH1H020C	CAP. CERAMIC 2P 0.25P 50V
C006	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C007	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C008	CC45FCH1H150J	CAP. CERAMIC 15P 5% 50V
C009	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C010	CE04EW1H100M	CAP. ELECTRO 10 20% 50V
C011	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C012	CE04EW1H100M	CAP. ELECTRO 10 20% 50V
C015	CC45FSL1H151J	CAP. CERAMIC 150P 5% 50V
C016	CC45FCH1H560J	CAP. CERAMIC 56P 5% 50V
C017	CC45FCH1H820J	CAP. CERAMIC 82P 5% 50V
C018	CC45FCH1H820J	CAP. CERAMIC 82P 5% 50V
C019	CC45FCH1H050C	CAP. CERAMIC 5P 0.25P 50V
C020	CC45FCH1H050C	CAP. CERAMIC 5P 0.25P 50V
C021	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C022	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C023	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C024	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C025	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C026	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C027	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C028	NO USE	
C029	CE04BW1E330M	CAP. ELECTRO 33 20% 25V
C030	CE04EW1H100M	CAP. ELECTRO 10 20% 50V
C031	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C101	C91-0501-05	CAP. METAL FILM 0.047 10% 630V
C104	C91-1270-05	CAP. POLYESTER 0.001 10% 400V
C105	CC45FCH1H020C	CAP. CERAMIC 2P 0.25P 50V
C106	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C107	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C108	CC45FCH1H150J	CAP. CERAMIC 15P 5% 50V
C109	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C110	CE04EW1H100M	CAP. ELECTRO 10 20% 50V
C111	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C112	CE04EW1H100M	CAP. ELECTRO 10 20% 50V
C115	CC45FSL1H151J	CAP. CERAMIC 150P 5% 50V
C116	CC45FCH1H560J	CAP. CERAMIC 56P 5% 50V
C117	CC45FCH1H820J	CAP. CERAMIC 82P 5% 50V
C118	CC45FCH1H820J	CAP. CERAMIC 82P 5% 50V
C119	CC45FCH1H050C	CAP. CERAMIC 5P 0.25P 50V
C120	CC45FCH1H050C	CAP. CERAMIC 5P 0.25P 50V
C121	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C122	CK45FF1H103Z	CAP. CERAMIC 0.01 50V
C123	CK45FF1H103Z	CAP. CERAMIC 0.01 50V

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION			
C124	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C125	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C126	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C127	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C128	CK45FB1H102K	CAP. CERAMIC	1000P	10%	50V
C129	CC45FCH1H270J	CAP. CERAMIC	27P	5%	50V
C205	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C206	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C207	CC45FSL1H681J	CAP. CERAMIC	680P	5%	50V
C208	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C209	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C210	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C211	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C212	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C213	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C214	CC45FCH1H070D	CAP. CERAMIC	7P	0.5P	50V
C215	CC45FCH1H070D	CAP. CERAMIC	7P	0.5P	50V
C216	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C217	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C218	CC45FCH1H150J	CAP. CERAMIC	15P	5%	50V
C219	CC45FCH1H0R5C	CAP. CERAMIC	0.5P	0.25P	50V
C220	CC45FCH1H0R5C	CAP. CERAMIC	0.5P	0.25P	50V
C221	C91-1269-05	CAP. POLYESTER	0.047	10%	250V
C222	C91-1269-05	CAP. POLYESTER	0.047	10%	250V
C223	C91-1268-05	CAP. POLYESTER	0.022	10%	630V
C224	C91-1268-05	CAP. POLYESTER	0.022	10%	630V
C225	CQ92FM1H473K	CAP. MYLAR	0.047	10%	50V
C226	CQ92FM1H104K	CAP. MYLAR	0.1	10%	50V
C227	CE04W2C010M	CAP. ELECTRO	1	20%	160V
C228	CE04EW1E101M	CAP. ELECTRO	100	20%	25V
C229	CE04EW1E101M	CAP. ELECTRO	100	20%	25V
C230	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C231	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C232	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C233	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C234	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C235	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C236	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C237	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C238	CQ92FM1H104K	CAP. MYLAR	0.1	10%	50V
C239	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C301	CE04EW1V102M	CAP. ELECTRO	1000	20%	35V
C302	CE04EW1V222M	CAP. ELECTRO	2200	20%	35V
C303	NO USE				
C304	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C305	CE04W2E470M	CAP. ELECTRO	47	20%	250V
C306	CE04W2E2R2M	CAP. ELECTRO	2.2	20%	250V
C307	CE04W2C010M	CAP. ELECTRO	1	20%	160V
C308	CQ92FM1H223K	CAP. MYLAR	0.022	10%	50V
C309	CQ92FM1H223K	CAP. MYLAR	0.022	10%	50V
C351	CQ92FM1H103J	CAP. MYLAR	0.01	5%	50V
C352	CQ92FM1H103J	CAP. MYLAR	0.01	5%	50V
C353	CC45FCH1H050C	CAP. CERAMIC	5P	0.25P	50V
C354	CK45FB1H102K	CAP. CERAMIC	1000P	10%	50V
C355	CE04EW1E470M	CAP. ELECTRO	47	20%	25V
C801	CK45F1H103Z	CAP. CERAMIC	0.01		50V
D001	1S1588	DIODE			
D002	1S1588	DIODE			
D003	1S1588	DIODE			
D004	1S1588	DIODE			
D005	1S1588	DIODE			
D006	1S1588	DIODE			
D007	1S1588	DIODE			
D101	1S1588	DIODE			
D102	1S1588	DIODE			
D103	1S1588	DIODE			
D104	1S1588	DIODE			
D105	1S1588	DIODE			
D106	1S1588	DIODE			
D201	1S1588	DIODE			
D202	1S1588	DIODE			
D203	1S1588	DIODE			
D204	1S1588	DIODE			
D205	MA700	DIODE			
D206	MA700	DIODE			
D207	HZ2(B3)	DIODE, ZENER	2.2V		
D208	HZ2(B3)	DIODE, ZENER	2.2V		
D209	1S1588	DIODE			
D210	1S1588	DIODE			
D211	1S1588	DIODE			
D212	1S1588	DIODE			

REF.NO	PARTS NO	NAME & DESCRIPTION	
D301	1G4B42	DIODE	
D302	HZS13J(B2)	DIODE ZENER	13.21V
D303	HZS13J(B2)	DIODE ZENER	13.21V
D304	1S1588	DIODE	
D305	HZS5.6J(B2)	DIODE ZENER	5.62V
D306	1G4B42	DIODE	
D307	1S1588	DIODE	
J003	E31-5503-05	LEAD WIRE WITH CONNECTOR	
J010	E31-5507-05	LEAD WIRE WITH CONNECTOR	
J024	E31-5517-05	LEAD WIRE WITH CONNECTOR	
J025	E31-5518-05	LEAD WIRE WITH CONNECTOR	
J026	NO USE		
J027	E31-5520-05	LEAD WIRE WITH CONNECTOR	
J028	NO USE		
J029	E31-5522-05	LEAD WIRE WITH CONNECTOR	
J030	E31-5523-05	LEAD WIRE WITH CONNECTOR	
J060	E31-5544-05	LEAD WIRE WITH CONNECTOR	
J061	E31-5545-05	LEAD WIRE WITH CONNECTOR	
J062	E31-5546-05	LEAD WIRE WITH CONNECTOR	
J063	E31-5547-05	LEAD WIRE WITH CONNECTOR	
L201	L40-2282-13	AXIAL COIL	0.22UH
L202	L40-2282-13	AXIAL COIL	0.22UH
P001	E40-0273-05	PIN CONNECTOR	2P
P002	E40-0373-05	PIN CONNECTOR	3P
P003	E40-0773-05	PIN CONNECTOR	7P
P004	E40-0273-05	PIN CONNECTOR	2P
P005	E40-0373-05	PIN CONNECTOR	3P
P006	E40-0373-05	PIN CONNECTOR	3P
P007	E40-0973-05	PIN CONNECTOR	9P
P008	E23-0401-05	PIN TERMINAL	
P009	E23-0401-05	PIN TERMINAL	
P010	E40-0273-05	PIN CONNECTOR	2P
P011	E40-7031-05	PIN CONNECTOR	5 P
P012	E40-0373-05	PIN CONNECTOR	3P
P013	E40-0273-05	PIN CONNECTOR	2P
P014	E40-0673-05	PIN CONNECTOR	6P
Q001	2SC1907	TR. SI, NPN	
Q002	2SK304(E)	FET. N-CHANNEL	
Q003	2SC945(Q)	TR. SI, NPN	
Q004	2SA844(D)	TR. SI, PNP	
Q005	2SC945(Q)	TR. SI, NPN	
Q006	2SA1005(K)	TR. SI, PNP	
Q007	2SA1005(K)	TR. SI, PNP	
Q008	2SA838(B)	TR. SI, PNP	
Q009	2SA838(B)	TR. SI, PNP	
Q010	2SC945(Q)	TR. SI, NPN	
Q011	2SA1005(K)	TR. SI, PNP	
Q012	2SA1005(K)	TR. SI, PNP	
Q013	2SC1907	TR. SI, NPN	
Q101	2SC1907	TR. SI, NPN	
Q102	2SK304(E)	FET. N-CHANNEL	
Q103	2SC945(Q)	TR. SI, NPN	
Q104	2SA844(D)	TR. SI, PNP	
Q105	2SC945(Q)	TR. SI, NPN	
Q106	2SA1005(K)	TR. SI, PNP	
Q107	2SA1005(K)	TR. SI, PNP	
Q108	2SA838(B)	TR. SI, PNP	
Q109	2SA838(B)	TR. SI, PNP	
Q110	2SA838(B)	TR. SI, PNP	
Q111	2SA838(B)	TR. SI, PNP	
Q112	2SA1005(K)	TR. SI, PNP	
Q113	2SA1005(K)	TR. SI, PNP	
Q201	2SA1206(K)	TR. SI, PNP	
Q202	2SA1206(K)	TR. SI, PNP	
Q203	2SC945(Q)	TR. SI, NPN	
Q204	2SA844(D)	TR. SI, PNP	
Q205	2SC1907	TR. SI, NPN	
Q206	2SC1907	TR. SI, NPN	
Q207	2SC1907	TR. SI, NPN	
Q208	2SC1907	TR. SI, NPN	
Q209	2SC1907	TR. SI, NPN	
Q210	2SC1907	TR. SI, NPN	
Q211	2SA1206(K)	TR. SI, PNP	
Q212	2SA1206(K)	TR. SI, PNP	
Q213	2SC2570A	TR. SI, NPN	
Q214	2SC2570A	TR. SI, NPN	
Q215	2SC3423(Y)	TR. SI, NPN	
Q216	2SC3423(Y)	TR. SI, NPN	
Q217	2SA1360(Y)	TR. SI, PNP	

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION			
Q218	2SA1360(Y)	TR. SI. PNP			
Q219	2SC2570A	TR. SI. NPN			
Q220	2SC2570A	TR. SI. NPN			
Q301	2SD880(Y)	TR. SI. NPN			
Q302	2SB834(Y)	TR. SI. PNP			
Q303	2SD880(Y)	TR. SI. NPN			
Q304	2SB861(C)	TR. SI. PNP			
R001	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R012	RN14BK2E1004F	RES. METAL FILM	1M	1%	1/4W
R013	RD14BB2E824J	RES. CARBON	820K	5%	1/4W
R014	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R015	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R016	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R017	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R018	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R019	RD14BB2C822J	RES. CARBON	8.2K	5%	1/6W
R020	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R021	NO USE				
R022	RD14BB2C391J	RES. CARBON	390	5%	1/6W
R023	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R024	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R025	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R033	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R034	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R035	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R036	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R037	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R038	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R039	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R040	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R041	RD14BB2C270J	RES. CARBON	27	5%	1/6W
R042	RD14BB2C270J	RES. CARBON	27	5%	1/6W
R043	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R044	RN14BK2C56R0F	RES. METAL FILM	56.0	1%	1/6W
R045	RN14BK2C56R0F	RES. METAL FILM	56.0	1%	1/6W
R046	RN14BK2C4700F	RES. METAL FILM	470	1%	1/6W
R047	RN14BK2C4700F	RES. METAL FILM	470	1%	1/6W
R048	RD14BB2C271J	RES. CARBON	270	5%	1/6W
R049	RN14BK2C6800F	RES. METAL FILM	680	1%	1/6W
R050	RN14BK2C6800F	RES. METAL FILM	680	1%	1/6W
R051	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R052	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R053	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R054	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R055	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R056	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R057	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R058	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R059	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R060	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R061	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R062	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R063	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R064	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R065	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R066	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R067	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R068	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R069	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R070	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R071	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R072	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R073	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R074	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R075	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R076	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R077	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R078	RD14BB2C390J	RES. CARBON	39	5%	1/6W
R101	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R112	RN14BK2E1004F	RES. METAL FILM	1M	1%	1/4W
R113	RD14BB2E824J	RES. CARBON	820K	5%	1/4W
R114	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R115	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R116	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R117	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R118	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R119	RD14BB2C822J	RES. CARBON	8.2K	5%	1/6W
R120	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R121	NO USE				
R122	RD14BB2C391J	RES. CARBON	390	5%	1/6W
R123	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R124	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R125	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R133	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R134	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R135	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R136	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R137	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R138	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R139	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R140	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R141	RD14BB2C270J	RES. CARBON	27	5%	1/6W
R142	RD14BB2C270J	RES. CARBON	27	5%	1/6W
R143	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R144	RN14BK2C56R0F	RES. METAL FILM	56.0	1%	1/6W
R145	RN14BK2C56R0F	RES. METAL FILM	56.0	1%	1/6W
R146	RN14BK2C4700F	RES. METAL FILM	470	1%	1/6W
R147	RN14BK2C4700F	RES. METAL FILM	470	1%	1/6W
R148	RD14BB2C271J	RES. CARBON	270	5%	1/6W
R149	RN14BK2C6800F	RES. METAL FILM	680	1%	1/6W
R150	RN14BK2C6800F	RES. METAL FILM	680	1%	1/6W
R151	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R152	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R153	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R154	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R155	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R156	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R157	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R158	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R159	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R160	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R161	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R162	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R163	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R164	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R165	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R166	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R167	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R168	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R169	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R170	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R171	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R172	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R173	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R174	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R201	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R202	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R203	RN14BK2C4700F	RES. METAL FILM	470	1%	1/6W
R204	RN14BK2C4700F	RES. METAL FILM	470	1%	1/6W
R205	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R206	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R207	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R208	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R209	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R210	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R211	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R212	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R213	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R214	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R215	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R216	R90-0645-05	RES. NETWORK	10KX4	5%	
R217	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R218	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R219	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R220	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R221	RN14BK2C91R0F	RES. METAL FILM	91.0	1%	1/6W
R222	RN14BK2C91R0F	RES. METAL FILM	91.0	1%	1/6W
R223	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R224	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R225	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R226	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R227	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R228	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R229	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R230	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R231	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R232	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R233	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R234	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R235	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R236	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R237	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R238	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R239	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R240	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R241	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R242	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R243	RD14BB2C102J	RES. CARBON	1K	5%	1/6W

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION			
R244	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R245	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R246	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R249	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R250	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R251	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R252	RS14GB3A333J	RES. METAL FILM	33K	5%	1W
R253	RS14GB3A333J	RES. METAL FILM	33K	5%	1W
R254	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R255	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R256	RD14DB2H473J	RES. CARBON	47K	5%	1/2W
R257	RD14DB2H473J	RES. CARBON	47K	5%	1/2W
R258	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R259	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R260	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R261	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R262	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R263	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R264	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R265	RD14BB2C4R7J	RES. CARBON	4.7	5%	1/6W
R266	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R267	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R268	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R269	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R270	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R271	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R272	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R273	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R274	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R275	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R301	RD14DB2H2R2J	RES. CARBON	2.2	5%	1/2W
R302	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R303	RS14GB3A101J	RES. METAL FILM	100	5%	1W
R304	RN14BK2C1202F	RES. METAL FILM	12K	1%	1/6W
R305	RN14BK2C1202F	RES. METAL FILM	12K	1%	1/6W
R306	RS14GB3A1R0J	RES. METAL FILM	1	5%	1W
R307	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R308	RS14GB3A101J	RES. METAL FILM	100	5%	1W
R309	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R310	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R311	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R312	RS14GB3A330J	RES. METAL FILM	33	5%	1W
R313	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R314	RN14BK2C3901F	RES. METAL FILM	3.9K	1%	1/6W
R315	RN14BK2C9101F	RES. METAL FILM	9.1K	1%	1/6W
R316	RS14GB3D272J	RES. METAL FILM	2.7K	5%	2W
R317	RS14GB3D272J	RES. METAL FILM	2.7K	5%	2W
R318	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R319	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R320	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R321	RN14BK2C1203F	RES. METAL FILM	120K	1%	1/6W
R322	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R323	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R324	RD14BB2E225J	RES. CARBON	2.2M	5%	1/4W
R325	RD14BB2E225J	RES. CARBON	2.2M	5%	1/4W
R351	RD14BB2C154J	RES. CARBON	150K	5%	1/6W
R352	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R353	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R354	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R355	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R356	RD14BB2C224J	RES. CARBON	220K	5%	1/6W
R357	RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R358	RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R359	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R360	RN14BK2C1102F	RES. METAL FILM	11K	1%	1/6W
R361	RN14BK2C7500F	RES. METAL FILM	750	1%	1/6W
R362	NO USE				
R363	RD14BB2C100J	RES. CARBON	10	5%	1/6W
S001	S32-2012-05	LEVER SWITCH 2-3			
S002	S02-4509-05	ROTARY SWITCH WITH V.R			
S101	S32-2012-05	LEVER SWITCH 2-3			
S102	S02-4509-05	ROTARY SWITCH WITH V.R			
S201	S32-4008-05	LEVER SWITCH 4-S			
TC005	C05-0455-05	CAP. TRIMMER	30PF		
TC006	C05-0456-05	CAP. TRIMMER	50PF		
TC105	C05-0455-05	CAP. TRIMMER	30PF		
TC106	C05-0456-05	CAP. TRIMMER	50PF		
TC201	C05-0454-05	CAP. TRIMMER	20PF		
TC202	C05-0454-05	CAP. TRIMMER	20PF		

REF.NO	PARTS NO	NAME & DESCRIPTION
TC203	C05-0455-05	CAP. TRIMMER 30PF
TH021	112-251-2	THERMISTOR
TH121	112-251-2	THERMISTOR
U001	LF411CN	IC,DUAL JFET INPUT OP AMP
U002	CA3086	IC, NPN TRANSISTOR ARRAY
U101	LF411CN	IC,DUAL JFET INPUT OP AMP
U102	CA3086	IC, NPN TRANSISTOR ARRAY
U201	SN74LS47N	IC, DECODER/DRIVER
U202	SN74LS00N	IC, QUAD 2-INPUT NAND GATE
U203	SN74LS00N	IC, QUAD 2-INPUT NAND GATE
U204	SN74LS112AN	IC, DUAL JK-FF
U205	SN74LS00N	IC, QUAD 2-INPUT NAND GATE
U301	UPC4558C	IC, OP AMP
U302	UPC4558C	IC, OP AMP
U351	TC4011BP	IC, QUAD 2-INPUT NAND GATE
VR001	R12-3550-05	RES. SEMI FIXED 20K B
VR002	R12-0577-05	RES. SEMI FIXED 500 B
VR003	R12-3550-05	RES. SEMI FIXED 20K B
VR004	R12-0575-05	RES. SEMI FIXED 100 B
VR005	S02-4509-05	ROTARY SWITCH WITH V.R
VR006	R12-3550-05	RES. SEMI FIXED 20K B
VR007	R12-0577-05	RES. SEMI FIXED 500 B
VR008	R12-0577-05	RES. SEMI FIXED 500 B
VR009	R12-1545-05	RES. SEMI FIXED 1K B
VR010	R01-3522-05	V.R. 2X10K B
VR011	R12-1545-05	RES. SEMI FIXED 1K B
VR012	R06-2505-05	V.R. 2X10K B
VR013	R01-5513-05	V.R. 100K B
VR014	R01-3523-05	V.R. 10K B
VR101	R12-3550-05	RES. SEMI FIXED 20K B
VR102	R12-0577-05	RES. SEMI FIXED 500 B
VR103	R12-3550-05	RES. SEMI FIXED 20K B
VR104	R12-0575-05	RES. SEMI FIXED 100 B
VR105	S02-4509-05	ROTARY SWITCH WITH V.R
VR106	R12-3550-05	RES. SEMI FIXED 20K B
VR107	R12-0577-05	RES. SEMI FIXED 500 B
VR108	R12-0577-05	RES. SEMI FIXED 500 B
VR109	R12-1545-05	RES. SEMI FIXED 1K B
VR110	R01-3523-05	V.R. 10K B
VR111	R12-1545-05	RES. SEMI FIXED 1K B
VR201	R12-0577-05	RES. SEMI FIXED 500 B
VR202	R12-0576-05	RES. SEMI FIXED 200 B
VR203	R12-0577-05	RES. SEMI FIXED 500 B
VR204	R12-0576-05	RES. SEMI FIXED 200 B
VR205	R12-1546-05	RES. SEMI FIXED 2K B
VR301	R12-1545-05	RES. SEMI FIXED 1K B
VR351	R12-0577-05	RES. SEMI FIXED 500 B

HORIZONTAL UNIT

X74-1490-00

REF.NO	PARTS NO	NAME & DESCRIPTION			
	E31-2948-05	ANODE CAP			
	E31-5531-05	LEAD WIRE WITH CONNECTOR			
	F01-0867-05	HEAT SINK			
	F11-1208-03	SHIELD CASE			
	F15-0727-04	HOLDER (NEON LAMP)			
	F20-0516-05	INSULATOR			
	J25-5259-02	PCB (UNMOUNTED)			
	J25-5264-04	PCB (UNMOUNTED) 58X22			
	J61-0501-05	BOARD SUPPORT			
	N19-0191-05	WASHER NONMETAL			
	N30-3006-41	SCREW, PAN HD	M3X6		
	R92-0150-05	JUMPING RES.	ZERO	OHM(10MM)	
	R92-1061-05	JUMPING RES.	ZERO	OHM (5MM)	
C002	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C003	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C004	CQ92M1H223K	CAP. MYLAR	0.022	10%	50V
C005	CC45FCH1H221J	CAP. CERAMIC	220P	5%	50V
C006	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C007	CC45FCH1H151J	CAP. CERAMIC	150P	5%	50V
C008	CC45FSL1H271J	CAP. CERAMIC	270P	5%	50V
C009	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C010	CE04EW1E470M	CAP. ELECTRO	47	20%	25V

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION			
C011	CE04EW1E470M	CAP. ELECTRO	47	20%	25V
C012	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C013	CS15E1V010M	CAP. TANTALUM	1	20%	35V
C014	CC45FCH1H030C	CAP. CERAMIC	3P	0.25P	50V
C015	CQ92FM1H103K	CAP. MYLAR	0.01	10%	50V
C016	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C017	CE04EW1E470M	CAP. ELECTRO	47	20%	25V
C018	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C019	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C020	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C021	CC45FCH1H101J	CAP. CERAMIC	100P	5%	50V
C022	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C023	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C101	CC45FSL1H561J	CAP. CERAMIC	560P	5%	50V
C102	NO USE				
C103	CQ92FM1H104K	CAP. MYLAR	0.1	10%	50V
C104	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C105	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C106	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C107	CC45FCH1H820J	CAP. CERAMIC	82P	5%	50V
C108	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C109	C91-0574-05	CAP. MYLAR	1	5%	100V
C110	NO USE				
C111	CC45FCH1H050C	CAP. CERAMIC	5P	0.25P	50V
C112	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C113	CC45FCH1H221J	CAP. CERAMIC	220P	5%	50V
C114	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C115	CE04EW1E470M	CAP. ELECTRO	47	20%	25V
C116	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C117	CQ92FM1H473K	CAP. MYLAR	0.047	10%	50V
C118	CC45FCH1H100D	CAP. CERAMIC	10P	0.5P	50V
C119	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C120	CQ92FM1H104K	CAP. MYLAR	0.1	10%	50V
C121	CK45FB1H102K	CAP. CERAMIC	1000P	10%	50V
C122	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C123	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C124	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C125	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C126	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C127	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C128	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C201	CC45FSL1H561J	CAP. CERAMIC	560P	5%	50V
C202	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C203	CQ92FM1H104K	CAP. MYLAR	0.1	10%	50V
C204	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C205	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C206	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C207	CC45FCH1H820J	CAP. CERAMIC	82P	5%	50V
C208	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C209	C91-0574-05	CAP. MYLAR	1	5%	100V
C210	NO USE				
C211	CC45FCH1H050C	CAP. CERAMIC	5P	0.25P	50V
C212	CE04EW1E101M	CAP. ELECTRO	100	20%	25V
C213	CC45FCH1H050C	CAP. CERAMIC	5P	0.25P	50V
C214	CC45FCH1H100D	CAP. CERAMIC	10P	0.5P	50V
C215	NO USE				
C216	CE04BW1E100M	CAP. ELECTRO	10	20%	25V
C217	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C218	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C219	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C220	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C221	CC45FCH1H151J	CAP. CERAMIC	150P	5%	50V
C222	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C223	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C224	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C225	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C226	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C227	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C228	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C229	NO USE				
C230	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C231	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C301	CC45FCH1H820J	CAP. CERAMIC	82P	5%	50V
C302	CK45FB1H471J	CAP. CERAMIC	470P	5%	50V
C303	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C304	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C305	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C306	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C307	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C308	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C401	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C402	CC45FCH1H221J	CAP. CERAMIC	220P	5%	50V
C403	CE04EW1H100M	CAP. ELECTRO	10	20%	50V
C404	CE04EW1H100M	CAP. ELECTRO	10	20%	50V

REF.NO	PARTS NO	NAME & DESCRIPTION			
C405	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C406	CK45FF1H103Z	CAP. CERAMIC	0.01		50V
C407	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C408	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C409	C91-1266-05	CAP. CERAMIC	1000P		6KV
C410	C91-1266-05	CAP. CERAMIC	1000P		6KV
C411	C91-1266-05	CAP. CERAMIC	1000P		6KV
C412	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C413	C91-1266-05	CAP. CERAMIC	1000P		6KV
C414	C91-1266-05	CAP. CERAMIC	1000P		6KV
C415	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C416	C91-1267-05	CAP. CERAMIC	4700P		3KV
C417	C91-1267-05	CAP. CERAMIC	4700P		3KV
C418	CS15E1V010M	CAP. TANTALUM	1	20%	35V
C419	CK45FB1H222K	CAP. CERAMIC	2200P	10%	50V
C420	CQ92FM1H223K	CAP. MYLAR	0.022	10%	50V
C421	CE04EW1H220M	CAP. ELECTRO	22	20%	50V
C422	C91-1264-05	CAP. CERAMIC	22P		3KV
C423	C91-1267-05	CAP. CERAMIC	4700P		3KV
C424	C91-1267-05	CAP. CERAMIC	4700P		3KV
C425	C91-1267-05	CAP. CERAMIC	4700P		3KV
C426	CE04W2C100M	CAP. ELECTRO	10	20%	160V
C427	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C434	CK45B2H103K	CAP. CERAMIC	0.01	10%	500V
C601	C91-1266-05	CAP. CERAMIC	1000P		6KV
C602	C91-1266-05	CAP. CERAMIC	1000P		6KV
C603	C91-1266-05	CAP. CERAMIC	1000P		6KV
C604	C91-1266-05	CAP. CERAMIC	1000P		6KV
C605	C91-1266-05	CAP. CERAMIC	1000P		6KV
C606	C91-1266-05	CAP. CERAMIC	1000P		6KV
C801	CE04EW1C102M	CAP. ELECTRO	1000	20%	16V
C802	CK45F1H103Z	CAP. CERAMIC	0.01		50V
D001	1S1588	DIODE			
D002	1S1588	DIODE			
D003	1SS86	DIODE			
D004	1S1588	DIODE			
D005	1S1588	DIODE			
D006	1S1588	DIODE			
D101	1S1588	DIODE			
D102	1S1588	DIODE			
D103	1S1588	DIODE			
D104	1S1588	DIODE			
D105	1S1588	DIODE			
D106	1S1588	DIODE			
D107	1S1588	DIODE			
D108	1S1588	DIODE			
D109	1S1588	DIODE			
D110	1S1588	DIODE			
D111	1S1588	DIODE			
D112	1S1588	DIODE			
D113	HZS6.8J(B2)	DIODE, ZENER	6.79V		
D201	1S1588	DIODE			
D202	1S1588	DIODE			
D203	1S1588	DIODE			
D204	1S1588	DIODE			
D205	1S1588	DIODE			
D206	1S1588	DIODE			
D207	1S1588	DIODE			
D208	1S1588	DIODE			
D209	1S1588	DIODE			
D210	1S1588	DIODE			
D211	1S1588	DIODE			
D212	1S1588	DIODE			
D213	1S1588	DIODE			
D214	1S1588	DIODE			
D215	1S1588	DIODE			
D216	1S1588	DIODE			
D217	1S1588	DIODE			
D218	1S1588	DIODE			
D219	1S1588	DIODE			
D220	1S1588	DIODE			
D301	1S1588	DIODE			
D302	MA700	DIODE			
D303	MA700	DIODE			
D304	1SS86	DIODE			
D305	1S1588	DIODE			
D306	1S1588	DIODE			
D307	1SS83	DIODE			
D401	1S1588	DIODE			
D402	HZ2(B2)	DIODE, ZENER	2.0V		

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION	
D403	HZ2(B2)	DIODE, ZENER	2.0V
D404	1SS83	DIODE	
D405	1SS83	DIODE	
D406	1SS83	DIODE	
D407	1SS83	DIODE	
D408	1SS83	DIODE	
D409	1SS83	DIODE	
D410	1SS83	DIODE	
D411	1SS83	DIODE	
D412	1S1588	DIODE	
D413	HZS5.6J(B2)	DIODE, ZENER	5.62V
D414	1S1588	DIODE	
D415	1S1588	DIODE	
D416	Y10GA	DIODE	
D423	HZ36L(2)	DIODE, ZENER	36V
D424	HZ36L(2)	DIODE, ZENER	36V
D425	HZ36L(2)	DIODE, ZENER	36V
D426	B30-0957-05	LED (LN322GPT)	
D601	Y10GA	DIODE	
D602	Y10GA	DIODE	
D603	Y10GA	DIODE	
D604	Y10GA	DIODE	
D605	Y10GA	DIODE	
D606	Y10GA	DIODE	
D801	RD30E(B3)	DIODE ,ZENER	29.09V
JW001	E31-5539-05	LEAD WIRE WITH CONNECTOR	
JW002	E31-5540-05	LEAD WIRE WITH CONNECTOR	
JW003	E31-5541-05	LEAD WIRE WITH CONNECTOR	
L101	L40-2292-02	FERRI INDUCTOR	2.2UH 20%
L201	L40-2292-02	FERRI INDUCTOR	2.2UH 20%
L401	L40-1011-13	FERRI INDUCTOR	100UH 10%
NE401	NE-2B	NEON LAMP	
NE402	NE-2B	NEON LAMP	
P004	E40-0273-05	PIN CONNECTOR	2P
P007	E40-0973-05	PIN CONNECTOR	9P
P010	E40-0573-05	PIN CONNECTOR	5P
P014	E40-0673-05	PIN CONNECTOR	6P
P022	E40-0673-05	PIN CONNECTOR	6P
P023	E23-0401-05	PIN TERMINAL	
P024	E40-0373-05	PIN CONNECTOR	3P
P025	E40-0573-05	PIN CONNECTOR	5P
P026	E40-0273-05	PIN CONNECTOR	2P
P027	E40-0373-05	PIN CONNECTOR	3P
P028	E40-0373-05	PIN CONNECTOR	3P
P029	E40-0873-05	PIN CONNECTOR	8P
P030	E40-0273-05	PIN CONNECTOR	2P
P031	E40-0373-05	PIN CONNECTOR	3P
P043	E23-0401-05	PIN TERMINAL	
P044	E23-0401-05	PIN TERMINAL	
P045	E40-0273-05	PIN CONNECTOR	2P
P046	E40-7033-05	PIN CONNECTOR	2P
P047	E40-7032-05	PIN CONNECTOR	5P
P048	E40-0273-05	PIN CONNECTOR	2P
P049	E40-0473-05	PIN CONNECTOR	4P
P050	E40-0473-05	PIN CONNECTOR	4P
P051	E40-0273-05	PIN CONNECTOR	2P
P052	E40-0473-05	PIN CONNECTOR	4P
P053	E40-0273-05	PIN CONNECTOR	2P
P081	E40-0216-05	PIN CONNECTOR	2P
Q001	2SA1005(K)	TR. SI, PNP	
Q002	2SA1005(K)	TR. SI, PNP	
Q003	2SK304(E)	FET. N-CHANNEL	
Q004	2SC1907	TR. SI, NPN	
Q005	2SC1907	TR. SI, NPN	
Q006	2SA844(D)	TR. SI, PNP	
Q007	2SA844(D)	TR. SI, PNP	
Q008	2SA844(D)	TR. SI, PNP	
Q009	2SA844(D)	TR. SI, PNP	
Q010	2SK117(BL)	FET, N-CHANNEL	
Q011	2SA838(B)	TR. SI, PNP	
Q012	2SA1015(Y)	TR. SI, PNP	
Q013	2SC1907	TR. SI, NPN	

REF.NO	PARTS NO	NAME & DESCRIPTION
Q014	2SA844(D)	TR. SI, PNP
Q015	2SC1907	TR. SI, NPN
Q016	2SC945(Q)	TR. SI, NPN
Q017	2SC945(Q)	TR. SI, NPN
Q018	2SA844(D)	TR. SI, PNP
Q101	2SA844(D)	TR. SI, PNP
Q102	2SA844(D)	TR. SI, PNP
Q103	2SA844(D)	TR. SI, PNP
Q104	2SA838(B)	TR. SI, PNP
Q105	2SC1843(E)	TR. SI, NPN
Q106	2SK117(BL)	FET, N-CHANNEL
Q107	2SK170(V)	FET, N-CHANNEL
Q108	2SA844(D)	TR. SI, PNP
Q109	2SA844(D)	TR. SI, PNP
Q110	2SC945(Q)	TR. SI, NPN
Q111	2SC945(Q)	TR. SI, NPN
Q112	2SC945(Q)	TR. SI, NPN
Q113	2SC945(Q)	TR. SI, NPN
Q201	2SA844(D)	TR. SI, PNP
Q202	2SA844(D)	TR. SI, PNP
Q203	2SA844(D)	TR. SI, PNP
Q204	2SA838(B)	TR. SI, PNP
Q205	2SC1843(E)	TR. SI, NPN
Q206	2SK117(BL)	FET, N-CHANNEL
Q207	2SK170(V)	FET, N-CHANNEL
Q208	2SA844(D)	TR. SI, PNP
Q209	2SA844(D)	TR. SI, PNP
Q210	2SA1015(Y)	TR. SI, PNP
Q211	2SK170(V)	FET, N-CHANNEL
Q212	2SK170(V)	FET, N-CHANNEL
Q213	2SC945(Q)	TR. SI, NPN
Q214	2SA844(D)	TR. SI, PNP
Q215	2SA844(D)	TR. SI, PNP
Q216	2SC945(Q)	TR. SI, NPN
Q217	2SC945(Q)	TR. SI, NPN
Q218	2SC945(Q)	TR. SI, NPN
Q219	2SA1005(K)	TR. SI, PNP
Q220	2SA1005(K)	TR. SI, PNP
Q221	2SC945(Q)	TR. SI, NPN
Q301	2SC945(Q)	TR. SI, NPN
Q302	2SC945(Q)	TR. SI, NPN
Q303	2SA1015(Y)	TR. SI, PNP
Q304	2SA1015(Y)	TR. SI, PNP
Q305	2SC1907	TR. SI, NPN
Q306	2SC1907	TR. SI, NPN
Q307	2SC1907	TR. SI, NPN
Q308	2SA838(B)	TR. SI, PNP
Q309	2SD668A(C)	TR, SI, NPN
Q310	2SD668A(C)	TR, SI, NPN
Q311	2SB648A(C)	TR. SI, PNP
Q312	2SB648A(C)	TR. SI, PNP
Q401	2SA1005(K)	TR. SI, PNP
Q402	2SA1005(K)	TR. SI, PNP
Q403	2SC1907	TR. SI, NPN
Q404	2SC1907	TR. SI, NPN
Q405	2SD668A(C)	TR, SI, NPN
Q406	2SD668A(C)	TR, SI, NPN
Q407	2SD668A(C)	TR, SI, NPN
Q408	2SD668A(C)	TR, SI, NPN
Q409	2SD880(Y)	TR. SI, NPN
Q410	2SC945(Q)	TR. SI, NPN
Q411	2SA1015(Y)	TR. SI, PNP
Q412	2SC1846(R)	TR. SI, NPN
Q413	2SC1846(R)	TR. SI, NPN

R001	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R002	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R003	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R004	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R005	RD14BB2C912J	RES. CARBON	9.1K	5%	1/6W
R006	RD14BB2C302J	RES. CARBON	3K	5%	1/6W
R007	RD14BB2E220J	RES. CARBON	22	5%	1/4W
R008	RD14BB2C560J	RES. CARBON	56	5%	1/6W
R009	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R010	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R011	RN14BK2E1004F	RES. METAL FILM	1M	1%	1/4W
R012	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R013	RD14BB2C330J	RES. CARBON	33	5%	1/6W
R014	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R015	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R016	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R017	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R018	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R019	RD14BB2C102J	RES. CARBON	1K	5%	1/6W

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION			
R020	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R021	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R022	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R023	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R024	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R025	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R026	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R027	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R028	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R029	RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R030	RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R031	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R032	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R033	RD14BB2C271J	RES. CARBON	270	5%	1/6W
R034	RD14BB2C201J	RES. CARBON	200	5%	1/6W
R035	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R036	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R037	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R038	RD14BB2C202J	RES. CARBON	2K	5%	1/6W
R039	RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R040	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R041	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R042	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R043	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R044	RD14BB2C391J	RES. CARBON	390	5%	1/6W
R045	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W
R046	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W
R047	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R048	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R049	RD14BB2C123J	RES. CARBON	12K	5%	1/6W
R050	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R051	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R052	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R053	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R101	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R102	RD14BB2C151J	RES. CARBON	150	5%	1/6W
R103	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R104	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R105	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R106	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R107	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R108	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R109	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R110	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R111	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R112	RD14BB2C330J	RES. CARBON	33	5%	1/6W
R113	RD14BB2C153J	RES. CARBON	15K	5%	1/6W
R114	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R115	RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R116	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R117	RN14BK2E3004F	RES. METAL FILM	3M	1%	1/4W
R118	RN14BK2C1004F	RES. METAL FILM	1M	1%	1/6W
R119	RN14BK2C5003F	RES. METAL FILM	500K	1%	1/6W
R120	RN14BK2C3003F	RES. METAL FILM	300K	1%	1/6W
R121	RN14BK2C1003F	RES. METAL FILM	100K	1%	1/6W
R122	RN14BK2C5002F	RES. METAL FILM	50K	1%	1/6W
R123	RN14BK2C3002F	RES. METAL FILM	30K	1%	1/6W
R124	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R125	RN14BK2C5001F	RES. METAL FILM	5K	1%	1/6W
R126	RN14BK2C3001F	RES. METAL FILM	3K	1%	1/6W
R127	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R128	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R129	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R130	RD14BB2C183J	RES. CARBON	18K	5%	1/6W
R131	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R132	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R133	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R134	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R135	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R136	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R137	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R138	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R139	RD14BB2C821J	RES. CARBON	820	5%	1/6W
R140	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R141	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R142	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R143	RN14BK2C2002F	RES. METAL FILM	20K	1%	1/6W
R144	RN14BK2C3302F	RES. METAL FILM	33K	1%	1/6W
R145	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R146	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R147	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R148	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R149	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R150	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R151	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R201	RD14BB2C151J	RES. CARBON	150	5%	1/6W

REF.NO	PARTS NO	NAME & DESCRIPTION			
R202	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R203	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R204	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R205	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R206	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R207	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R208	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R209	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R210	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R211	RD14BB2C330J	RES. CARBON	33	5%	1/6W
R212	RD14BB2C183J	RES. CARBON	18K	5%	1/6W
R213	RD14BB2C183J	RES. CARBON	18K	5%	1/6W
R214	RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R215	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R216	RN14BK2E3004F	RES. METAL FILM	3M	1%	1/4W
R217	RN14BK2C1004F	RES. METAL FILM	1M	1%	1/6W
R218	RN14BK2C5003F	RES. METAL FILM	500K	1%	1/6W
R219	RN14BK2C3003F	RES. METAL FILM	300K	1%	1/6W
R220	RN14BK2C1003F	RES. METAL FILM	100K	1%	1/6W
R221	RN14BK2C5002F	RES. METAL FILM	50K	1%	1/6W
R222	RN14BK2C3002F	RES. METAL FILM	30K	1%	1/6W
R223	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R224	RN14BK2C5001F	RES. METAL FILM	5K	1%	1/6W
R225	RN14BK2C3001F	RES. METAL FILM	3K	1%	1/6W
R226	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R227	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R228	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R229	RD14BB2C183J	RES. CARBON	18K	5%	1/6W
R230	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R231	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R232	RD14BB2C182J	RES. CARBON	1.8K	5%	1/6W
R233	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R234	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R235	RD14BB2C153J	RES. CARBON	15K	5%	1/6W
R236	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R237	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R238	RD14BB2C242J	RES. CARBON	2.4K	5%	1/6W
R239	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R240	RD14BB2C822J	RES. CARBON	8.2K	5%	1/6W
R241	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R242	RD14BB2C563J	RES. CARBON	56K	5%	1/6W
R243	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R244	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R245	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R246	RN14BK2C4301F	RES. METAL FILM	4.3K	1%	1/6W
R247	RN14BK2C4301F	RES. METAL FILM	4.3K	1%	1/6W
R248	RN14BK2C2002F	RES. METAL FILM	20K	1%	1/6W
R249	RN14BK2C3302F	RES. METAL FILM	33K	1%	1/6W
R250	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R251	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R252	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R253	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R254	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R255	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R256	RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R257	RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R258	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R259	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R260	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R261	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R262	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R263	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R264	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R265	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R266	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R267	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R268	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R269	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R301	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R302	RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R303	RN14BK2E1501F	RES. METAL FILM	1.5K	1%	1/4W
R304	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R305	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R306	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R307	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R308	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R309	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R310	RN14BK2E47R0F	RES. METAL FILM	47.0	1%	1/4W
R311	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R312	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R313	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R314	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R315	RN14BK2C7500F	RES. METAL FILM	750	1%	1/6W
R316	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R317	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R318	RD14BB2C123J	RES. CARBON	12K	5%	1/6W
R319	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION			
R320	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R321	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R322	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R323	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R324	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R325	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R326	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R327	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R328	RN14BK2C1003F	RES. METAL FILM	100K	1%	1/6W
R329	RN14BK2C1003F	RES. METAL FILM	100K	1%	1/6W
R330	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R331	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R401	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R402	RD14BB2C561J	RES. CARBON	560	5%	1/6W
R403	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R404	RD14BB2C123J	RES. CARBON	12K	5%	1/6W
R405	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R406	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R407	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R408	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R409	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R410	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R411	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R412	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R413	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R414	RD14DB2H473J	RES. CARBON	47K	5%	1/2W
R415	RD14DB2H473J	RES. CARBON	47K	5%	1/2W
R416	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R417	RD14DB2H473J	RES. CARBON	47K	5%	1/2W
R418	RD14DB2H473J	RES. CARBON	47K	5%	1/2W
R419	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R420	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R421	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R422	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R423	RD14BB2E332J	RES. CARBON	3.3K	5%	1/4W
R424	R92-1057-05	RES. METAL FILM	2.2M	5%	1/2W
R425	RD14BB2C823J	RES. CARBON	82K	5%	1/6W
R426	R92-1057-05	RES. METAL FILM	2.2M	5%	1/2W
R427	R92-1007-05	RES. CARBON	10M	5%	1/2W
R428	R92-1007-05	RES. CARBON	10M	5%	1/2W
R429	RD14BB2E102J	RES. CARBON	1K	5%	1/4W
R430	RD14BB2E102J	RES. CARBON	1K	5%	1/4W
R431	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R432	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R433	R92-1057-05	RES. METAL FILM	2.2M	5%	1/2W
R434	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R435	R92-1007-05	RES. CARBON	10M	5%	1/2W
R436	R92-1007-05	RES. CARBON	10M	5%	1/2W
R437	R92-1418-05	RES. METAL	6.8M	1%	1W
R438	R92-1419-05	RES. METAL FILM	10M	1%	1W
R439	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R440	RN14BK2C1103F	RES. METAL FILM	110K	1%	1/6W
R441	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R442	RN14BK2C8201F	RES. METAL FILM	8.2K	1%	1/6W
R443	RN14BK2C1202F	RES. METAL FILM	12K	1%	1/6W
R444	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R445	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R446	RS14GB3A1R0J	RES. METAL FILM	1	5%	1W
R447	RD14DB2H223J	RES. CARBON	22K	5%	1/2W
R448	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R449	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R450	NO USE				
R451	RD14BB2C681J	RES. CARBON	680	5%	1/6W
R452	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R453	RS14GB3A102J	RES. METAL FILM	1K	5%	1W
R454	RS14GB3A750J	RES. METAL FILM	75	5%	1W
R455	RS14GB3A750J	RES. METAL FILM	75	5%	1W
R456	RD14BB2C304J	RES. CARBON	300K	5%	1/6W
R457	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
R601	R92-1007-05	RES. CARBON	10M	5%	1/2W
R801	RD14BB2C561J	RES. CARBON	560	5%	1/6W
S001	S33-2501-05	LEVER SWITCH 2-5			
S002	S32-4008-05	LEVER SWITCH 4-5			
S101	S33-4503-05	LEVER SWITCH 4-5 (H.MODE)			
S102	S29-4501-05	ROTARY SWITCH WITH V.R(VR102)			
S202	S32-4009-05	LEVER SWITCH 4-4			
T401	L19-0421-05	CONVERTOR TRANSFORMER			
TC101	C05-0454-05	CAP. TRIMMER	20PF		
TC201	C05-0454-05	CAP. TRIMMER	20PF		

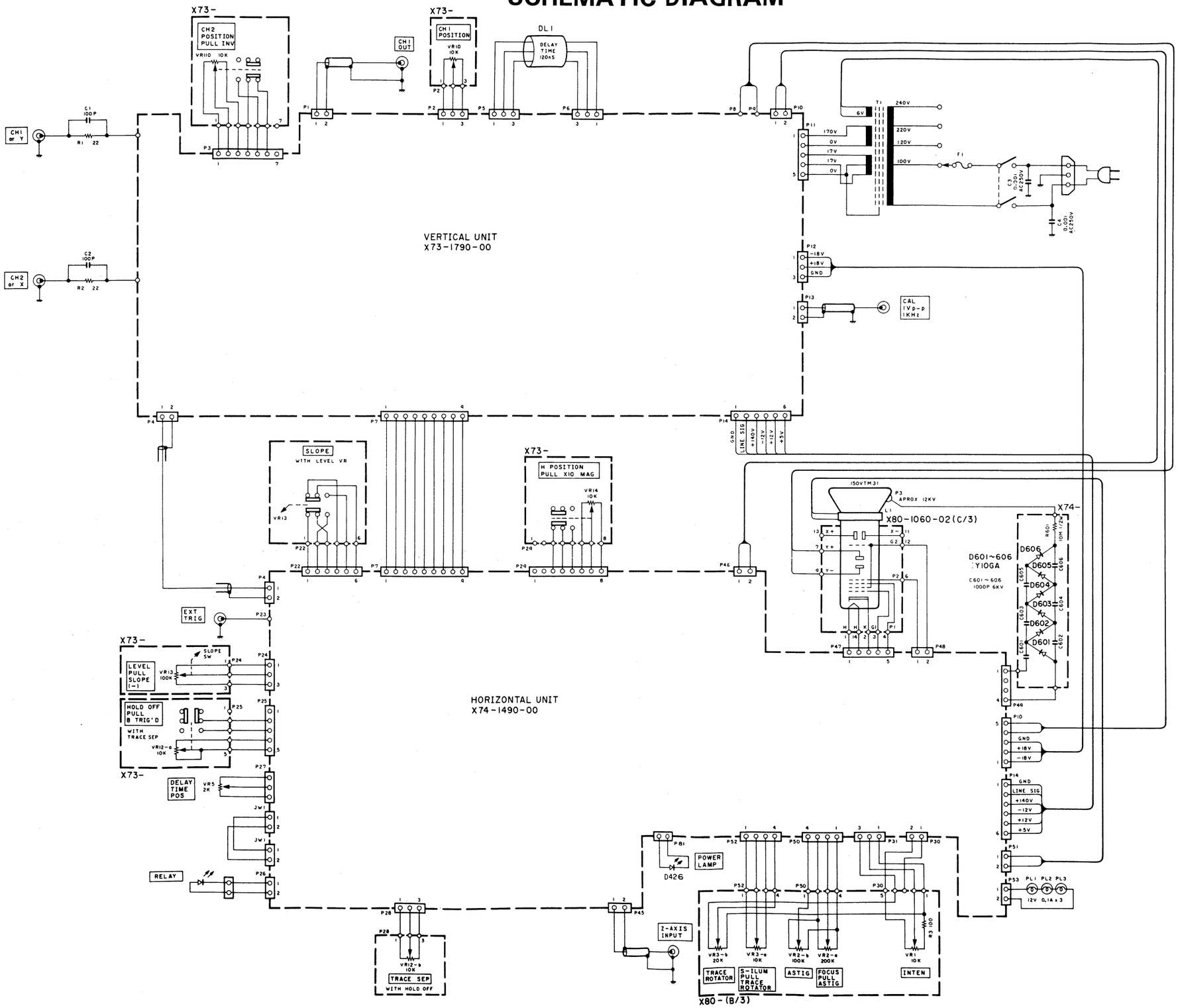
REF.NO	PARTS NO	NAME & DESCRIPTION
U001	SN74LS00N	IC, QUAD 2-INPUT NAND GATE
U101	SN74LS00N	IC, QUAD 2-INPUT NAND GATE
U102	SN74LS112AN	IC, DUAL JK-FF
U103	TL081CP	IC, BI-FET O.P AMP
U104	TC4053BP	IC, 2-CH ANALOG MULTIPLEXER
U201	SN74LS112AN	IC, DUAL JK-FF
U202	TL081CP	IC, BI-FET O.P AMP
U203	SN74LS112AN	IC, DUAL JK-FF
U401	LF13741N	IC, MONOLITHIC JFET INPUT OP
VR001	R12-2522-05	RES. SEMI FIXED 5K B
VR002	R12-0575-05	RES. SEMI FIXED 100 B
VR003	R12-0577-05	RES. SEMI FIXED 500 B
VR101	R12-3549-05	RES. SEMI FIXED 10K B
VR102	R06-3502-05	V.R. 10K B
VR201	R12-3549-05	RES. SEMI FIXED 10K B
VR202	R12-1545-05	RES. SEMI FIXED 1K B
VR203	R12-0577-05	RES. SEMI FIXED 500 B
VR204	R12-3549-05	RES. SEMI FIXED 10K B
VR301	R12-1546-05	RES. SEMI FIXED 2K B
VR302	R12-0575-05	RES. SEMI FIXED 100 B
VR401	R12-4516-05	RES. SEMI FIXED 50K B
VR402	R12-8501-05	RES. SEMI FIXED 2.2M B
VR403	R12-3549-05	RES. SEMI FIXED 10K B

LINE FILTER UNIT

X80-1060-02

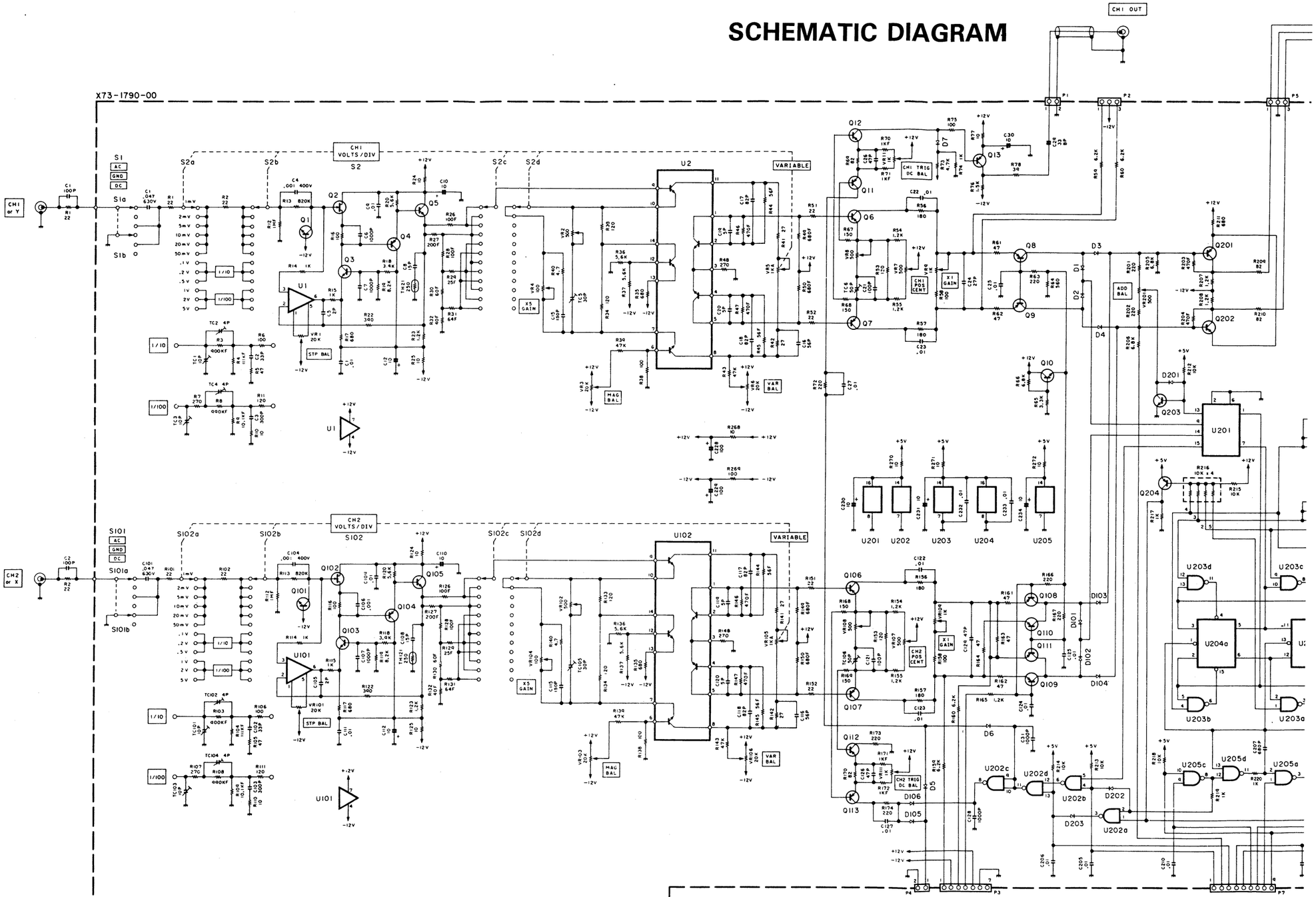
REF.NO	PARTS NO	NAME & DESCRIPTION
	E01-0103-05	CRT SOCKET
	E31-5505-05	WIRE ASS'Y (+Y,-Y)
	E31-5524-05	WIRE ASS'Y (+X,-X)
	E31-5528-05	WIRE ASS'Y (P2,G2)
	E31-5532-05	WIRE ASS'Y (P1,G1,K)
	J25-5179-23	PCB (UNMOUNTED)
	R92-0150-05	JUMPING RES. ZERO OHM(10MM)
	R92-1061-05	JUMPING RES. ZERO OHM (5MM)
P030	E40-0574-05	PIN CONNECTOR 5P
P050	E40-0474-05	PIN CONNECTOR 4P
P051	NO USE	
P052	E40-0474-05	PIN CONNECTOR 4P
R003	RD14BB2C101J	RES. CARBON 100 5% 1/6W
VR001	R05-3513-05	V.R.(INTEN) 10KB
VR002	R10-9506-05	V.R.(FOCUS/ASTIG) 200KB/100KB
VR003	R10-9507-05	V.R.(ILLUM/ROTA) 10KB/20KB

SCHEMATIC DIAGRAM



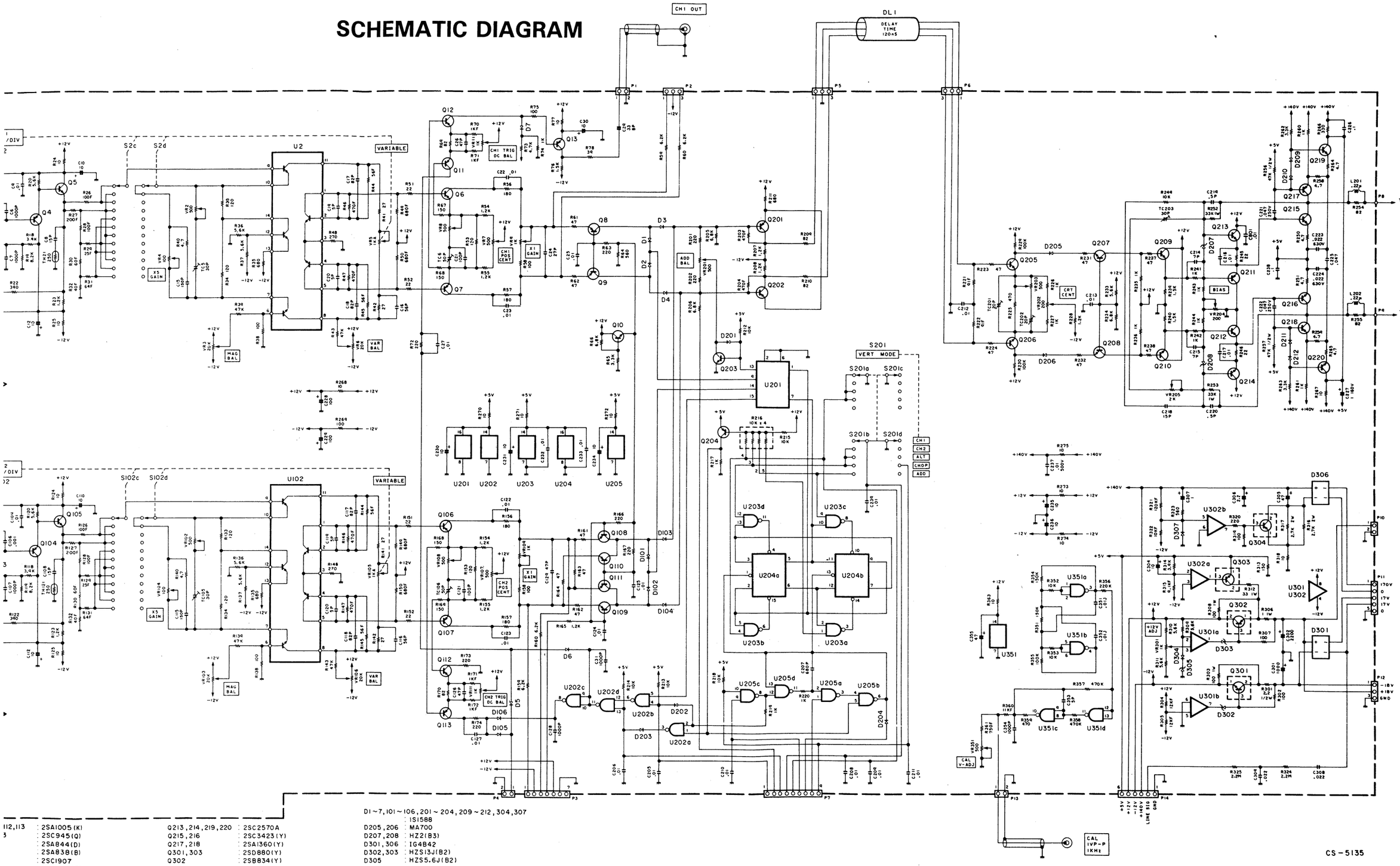
SCHEMATIC DIAGRAM

VERTICAL UNIT (X73-1790-00)



U1, 101	: LF411CN	Q6,7,11,12,106,107,112,113	: 2SA1005(K)	Q213,214,219,220	: 2SC2570A	D1~7,101~106,201~204,209~212,304,307	
U2, 102	: CA3086	Q3,5,10,103,105,203	: 2SC945(Q)	Q215,216	: 2SC3423(Y)		: IS1588
U201	: SN74LS47N	Q4,104,204	: 2SA844(D)	Q217,218	: 2SA1360(Y)	D205,206	: MA700
U202,203,205	: SN74LS00N	Q8,9,108~111	: 2SA838(B)	Q301,303	: 2SD880(Y)	D207,208	: HZ2(B3)
U204	: SN74LS112AN	Q13,101,205~210,1	: 2SC1907	Q302	: 2SB834(Y)	D301,306	: IG4B42
U301,302	: μPC4558C	Q102,2	: 2SK304(E)	Q304	: 2SB861(C)	D302,303	: HZS13J(B2)
U351	: TC4011BP	Q201,202,211,212	: 2SA1206(K)			D305	: HZS5.6J(B2)

SCHEMATIC DIAGRAM

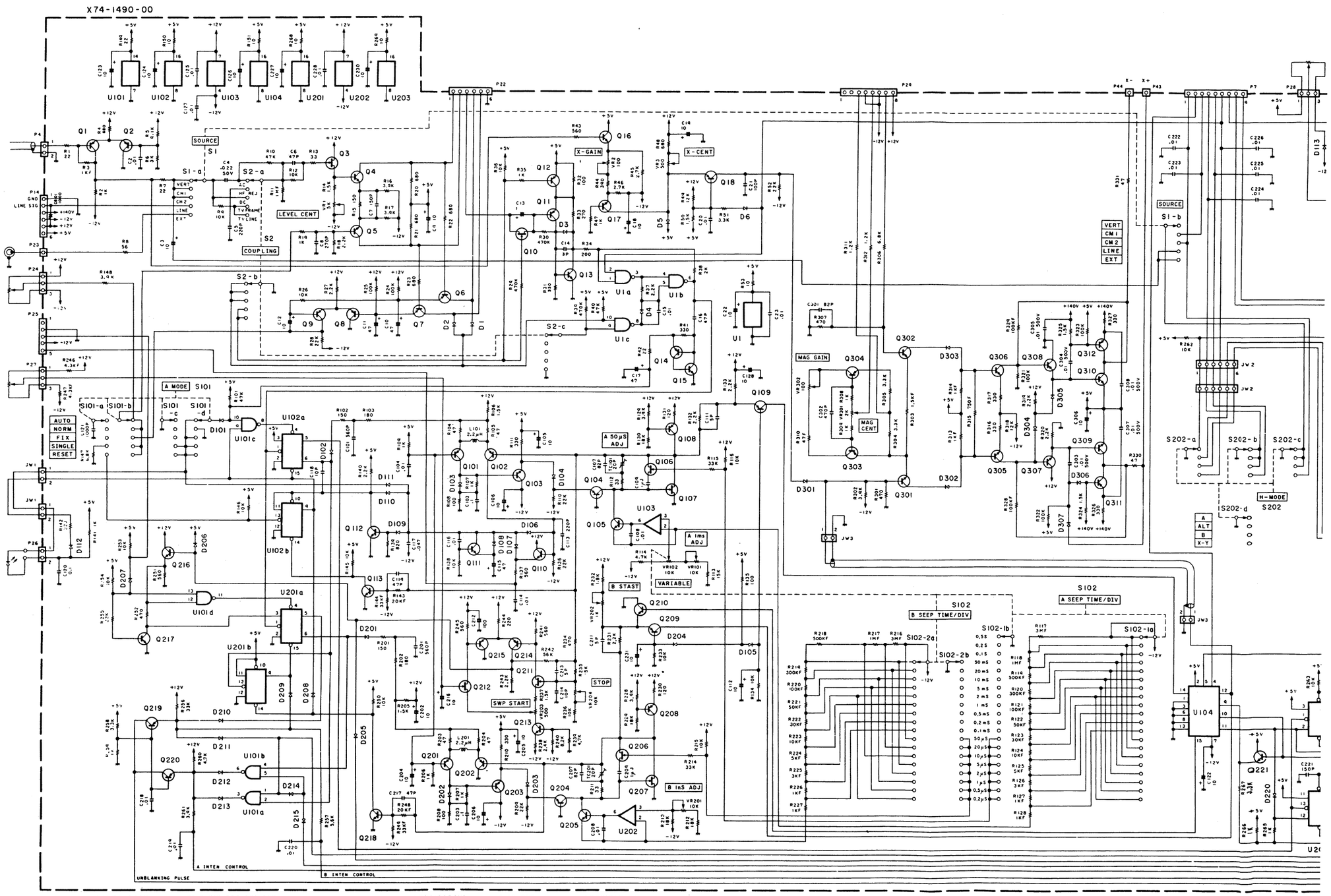


112,113	: 2SA1005(K)	Q213,214,219,220	: 2SC2570A	D1~7,101~106,201~204,209~212,304,307	: 1S1588
3	: 2SC945(Q)	Q215,216	: 2SC3423(Y)	D205,206	: MA700
	: 2SA844(D)	Q217,218	: 2SA1360(Y)	D207,208	: HZ2(B3)
	: 2SA838(B)	Q301,303	: 2SD880(Y)	D301,306	: IG4B42
	: 2SC1907	Q302	: 2SB834(Y)	D302,303	: HZS13J(B2)
	: 2SK304(E)	Q304	: 2SB861(C)	D305	: HZS5.6J(B2)
	: 2SA1206(K)				

CS-5135

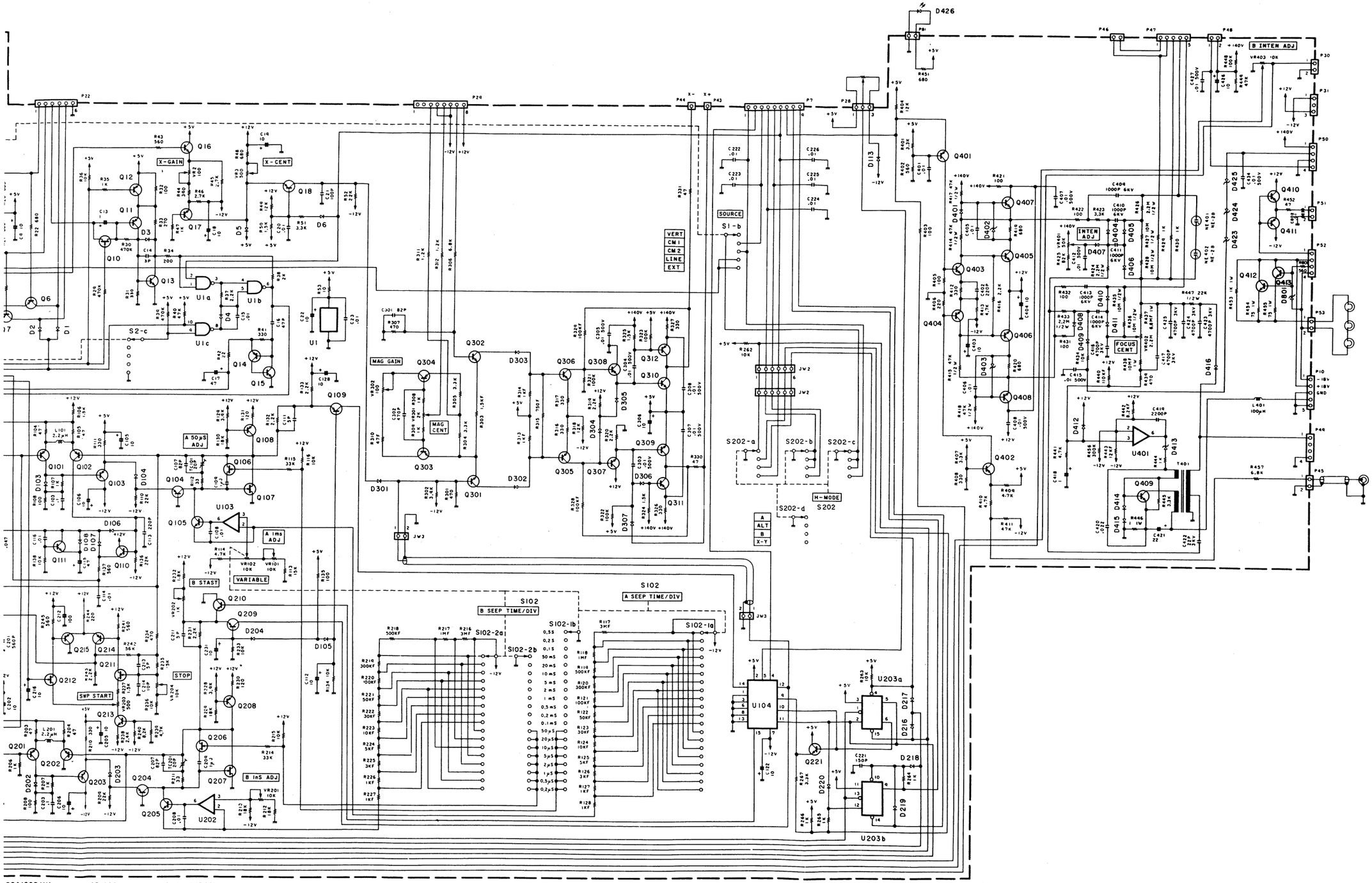
SCHEMATIC DIAGRAM

HORIZONTAL UNIT (X74-1490-00)



U1, 101	: SN74LS00N	Q1, 2, 219, 220, 401, 402	: 2SA1005(K)	Q105, 205	: 2SC1843(E)	D1, 2, 4, 5, 6, 101~112, 201~220, 301, 305, 306, 401, 412, 414, 415	: IS1588	D423~425	: HZ36L(2)
U102, 201, 203	: SN74LS112AN	Q3	: 2SK304(E)	Q107, 207, 211, 212	: 2SK170(V)	D3, 304	: ISS86	D426	: B30-0957-05
U103, 202	: TL081CP	Q4, 5, 13, 15, 305~307, 403, 404	: 2SC1907	Q309, 310, 405~408	: 2SD668A(C)	D113	: HZS6.8J(B2)	D801	: RD30E(B3)
U104	: TC4053BP	Q6~9, 14, 18, 101~103, 108, 109, 201~203, 208, 209, 214, 215	: 2SA844(D)	Q311, 312	: 2SB648A(C)	D302, 303	: MA700		
U401	: LF1374IN	Q10, 106, 206	: 2SK117(BL)	Q409	: 2SD880(Y)	D307, 404~411	: ISS83		
		Q11, 104, 204, 308	: 2SA838(B)	Q412, 413	: 2SC1846(R)	D402, 403	: HZ2(B3)		
		Q12, 210, 303, 304, 411	: 2SA1015(Y)			D413	: HZS5.6J(B2)		
		Q16, 17, 110~113, 213, 216~218, 221, 301, 302, 410	: 2SC945(Q)			D416	: Y10GA		

SCHEMATIC DIAGRAM

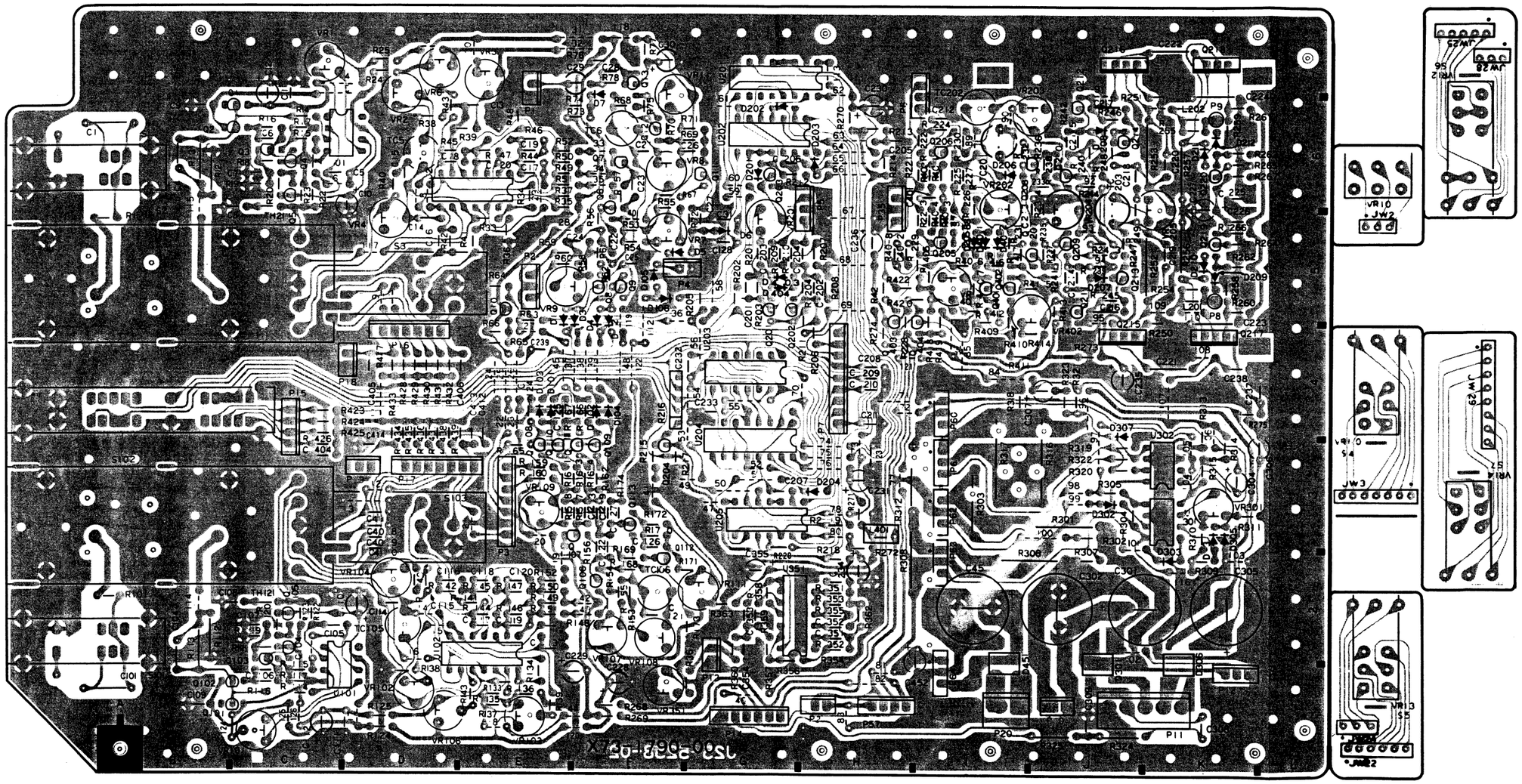


2SA1005(K)	Q105, 205	: 2SC1843(E)	D1, 2, 4, 5, 6, 101~112, 201~220, 301, 305, 306, 401, 412, 414, 415	: IS1588	D423~425	: HZ36L(2)
2SK304(E)	Q107, 207, 211, 212	: 2SK170(V)	D3, 304	: ISS86	D426	: B30-0957-05
2SC1907	Q309, 310, 405~408	: 2SD668A(C)	D113	: HZS6-8J(B2)	D801	: RD30E(B3)
2SA844(D)	Q311, 312	: 2SB648A(C)	D302, 303	: MA700		
2SK117(BL)	Q409	: 2SD880(Y)	D307, 404~411	: ISS83		
2SA838(B)	Q412, 413	: 2SC1846(R)	D402, 403	: HZ2(B3)		
2SA1015(Y)			D413	: HZS5-6J(B2)		
2SC945(Q)			D416	: YIOGA		

CS-5135

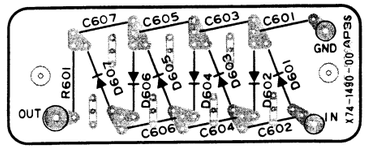
P.C. BOARD

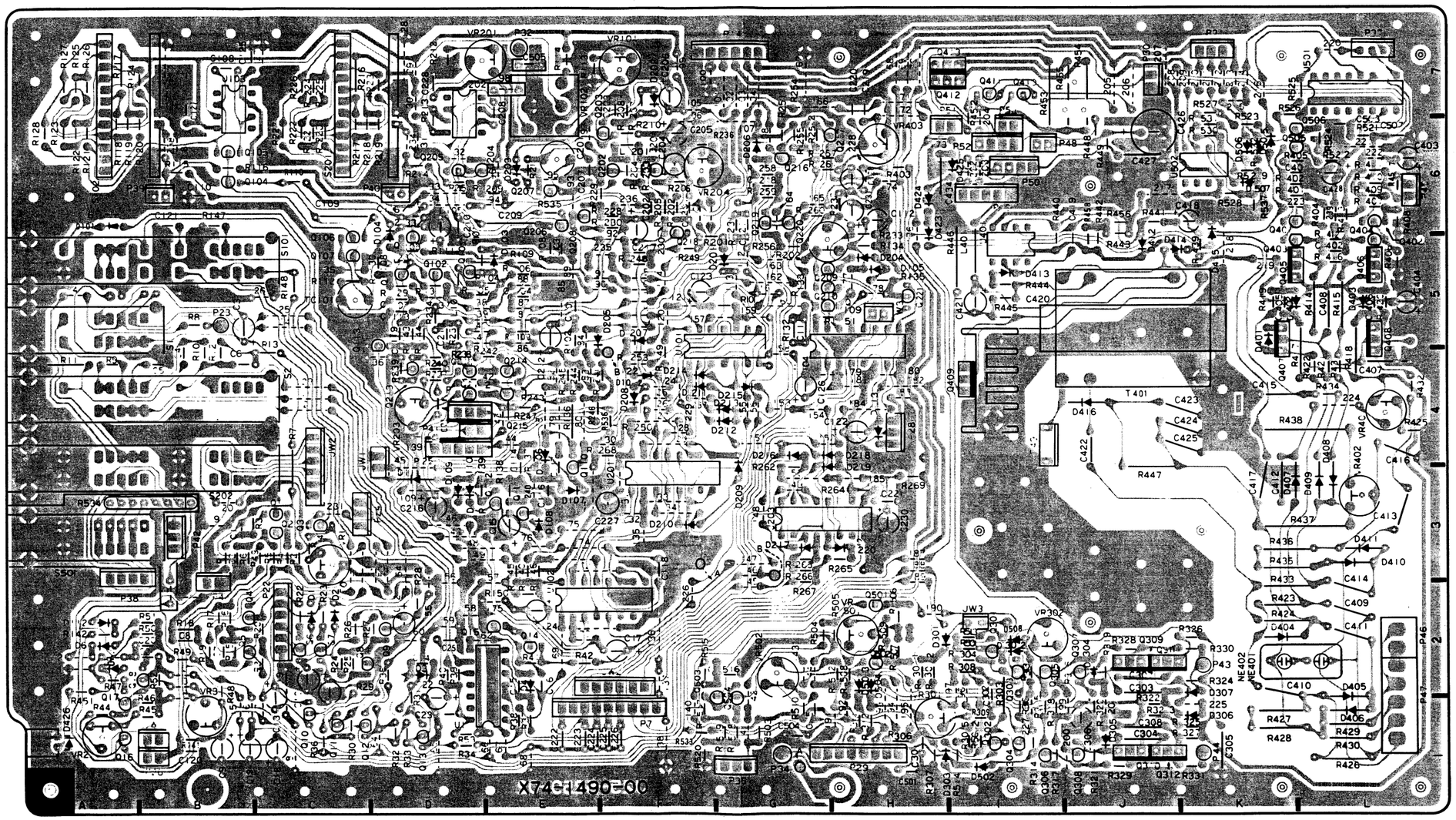
VERTICAL UNIT (X73-1790-00)



P.C. BOARD

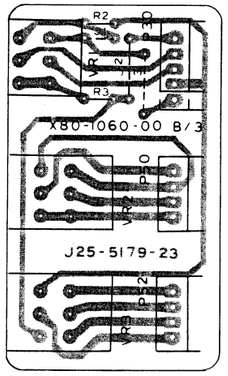
HORIZONTAL UNIT (X74-1490-00)

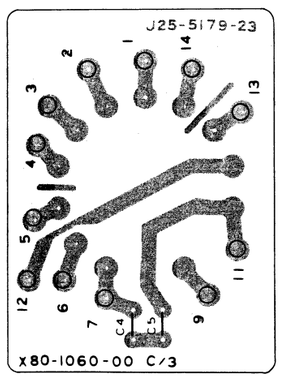




P.C. BOARD

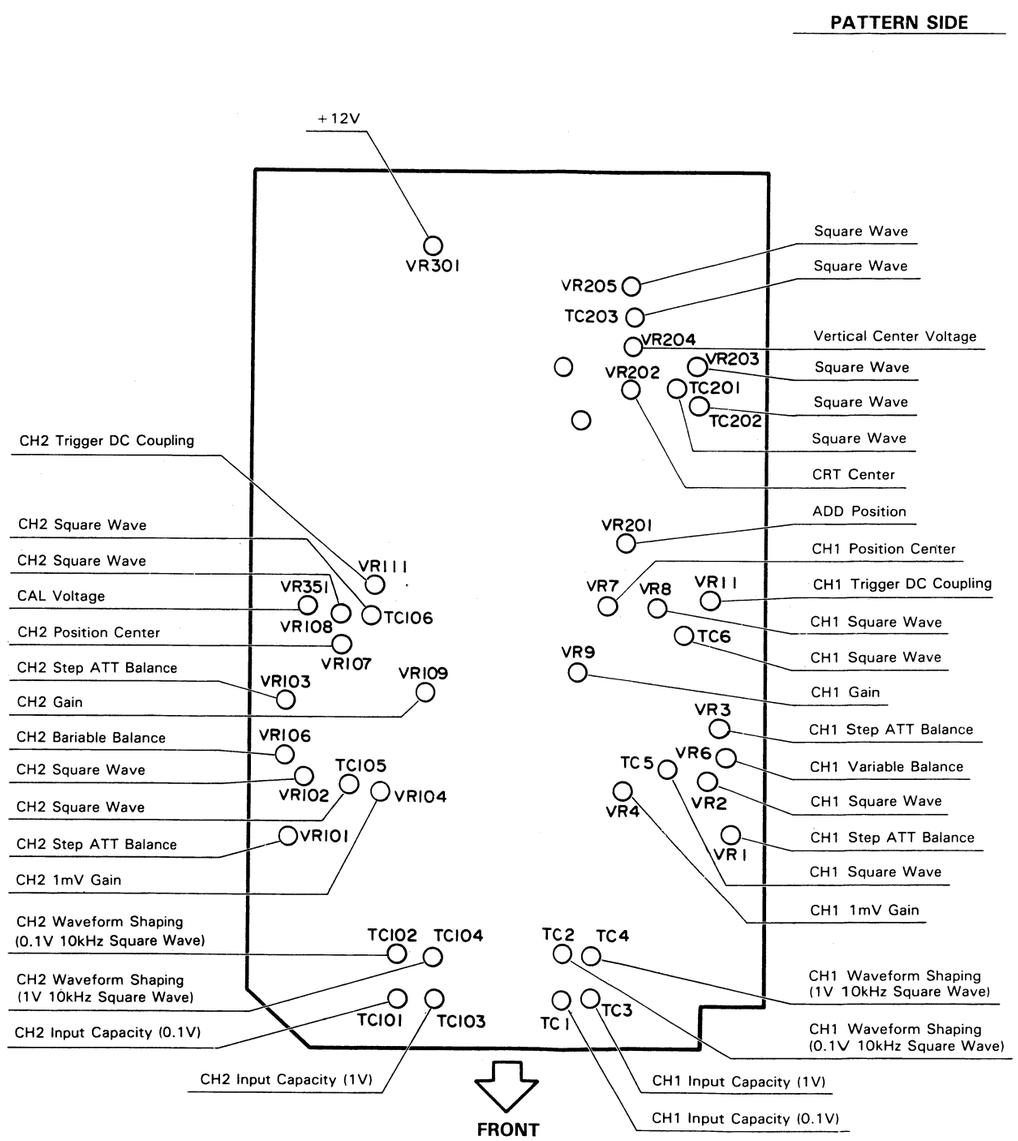
LINE FILTER UNIT (X80-1060-02)





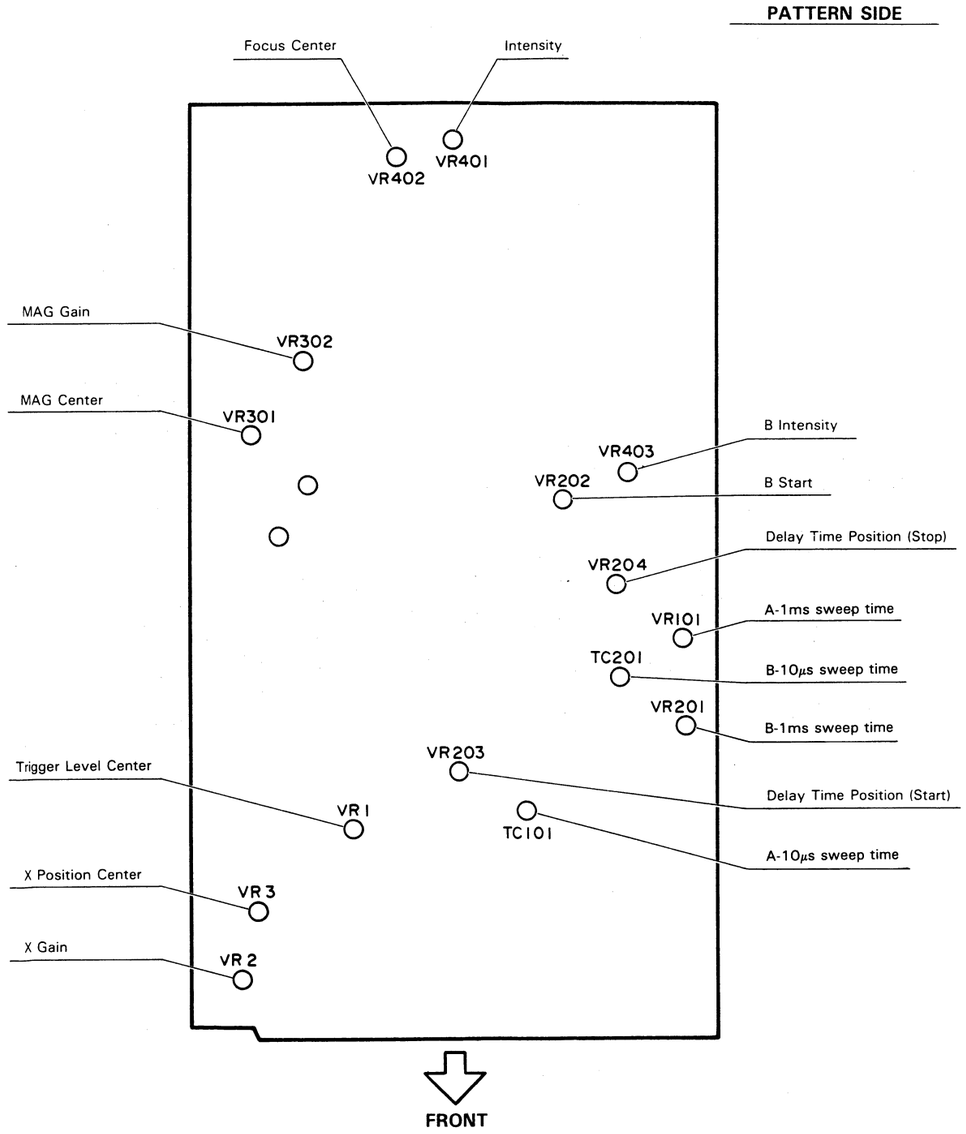
ADJUSTMENT

VERTICAL UNIT (X73-1790-00)



ADJUSTMENT

HORIZONTAL UNIT (X74-1490-00)



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